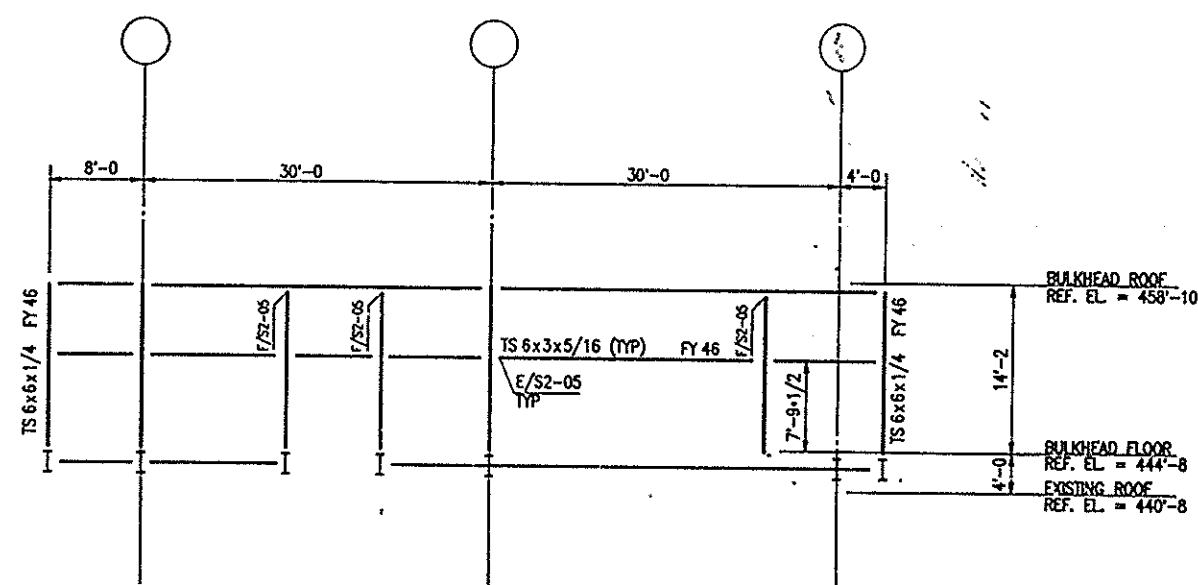
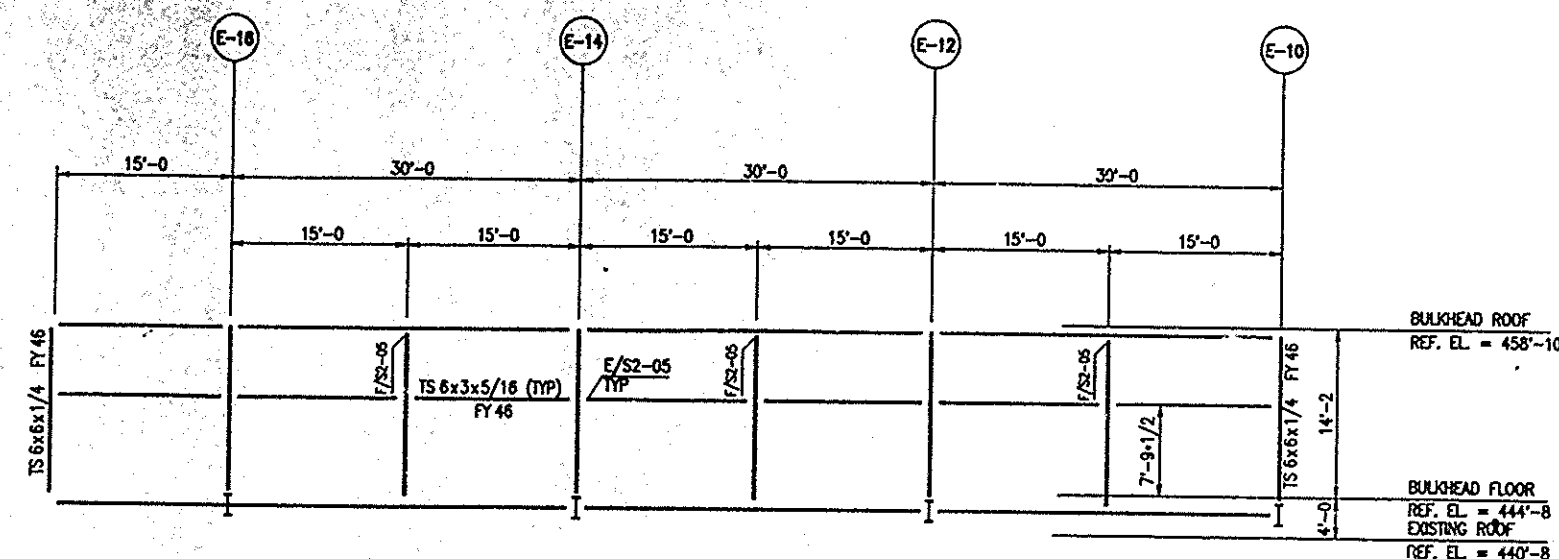


WEST ELEVATION

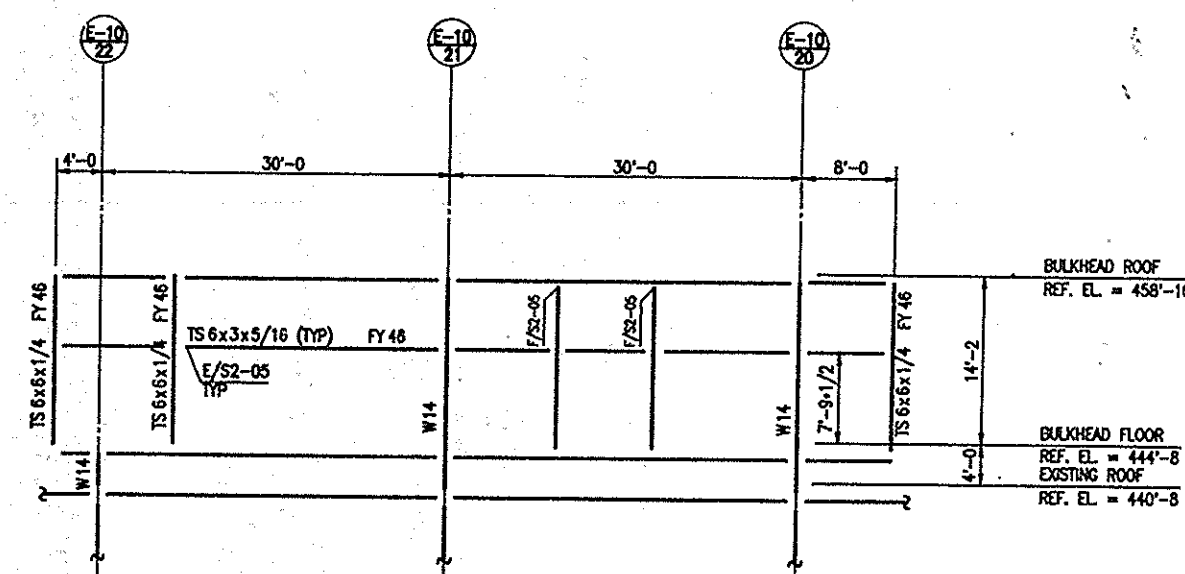


SOUTH ELEVATION

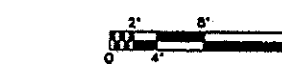
- NOTES:
1. FOR FLOOR FRAMING AT EXISTING ROOF, REFER TO DRAWING S2-01. FOR FLOOR FRAMING AT BULKHEAD FLOOR AND BULKHEAD ROOF, REFER TO DRAWING S2-02.
  2. FOR W14 COLUMNS, SEE DRAWINGS S2-01 AND S2-02.
  3. ALL TS MEMBERS ARE GALVANIZED.



EAST ELEVATION



NORTH ELEVATION



SHEET 32 OF 100/110

TRISTAR AUTHORITY  
OF NY & NJ



ORIGINAL SIGNED & SEALED BY  
N.Y. P.E. (OR R.A.)

Joseph R. Loring  
& Associates, Inc.  
consulting engineers

One Pennsylvania Plaza  
New York, New York 10001-2298  
Tel: (212) 512-7400, Fax: (212) 512-7382

THE OFFICE OF  
DAVID  
ELLIOT  
LEBOWITZ  
P.E.  
REGISTERED PROFESSIONAL ENGINEER  
IN THE STATE OF NEW YORK  
No. 12345, Exp. 12/31/99

LESLIE E. ROBERTSON  
ASSOCIATES, R.L.L.P.  
CONSULTING STRUCTURAL ENGINEERS  
300 WEST 42ND STREET  
NEW YORK, NY 10018-3608  
TEL: (212) 693-1000 FAX: (212) 693-1001

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT  
COPY OF ONE OF THE CONTRACT DRAWINGS COM-  
STITUTING A PART OF CONTRACT NO. WTC-945-071  
IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT  
THE TIME THE SAID CONTRACT WAS EXECUTED BY  
THE PARTIES.

DATE 11/17/97 *Samuel A. Adam*  
DATE 11/17/97 *R.K. James*  
ENGINEER OF DESIGN

11/17/97 ISSUED FOR BID

No. Date Revision Approved

Engineering Department

Design Divisions

The  
World  
Trade  
Center

STANDBY POWER  
5 WORLD TRADE CENTER

STRUCTURAL

5WTC BULKHEAD  
ELEVATIONS

This drawing subject to conditions in contract.  
All inventions, ideas, designs and methods  
herein are reserved to Port Authority and  
may not be used without its written consent.

MVS BAC JAF RZ

Designed by Drawn by Checked by

Date Scale

11/17/97 AS NOTED

Contract Number Drawing Number

WTC-945.071 S2-03